therapy electrode interface for delivering ablation energy to the therapy catheter.

11. The interface system of claim 5, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section.

REMARKS

Allowable Subject Matter:

The Applicant notes that the Examiner has found claims 5,10 and 11 to be allowable if rewritten. Claim 5 has been amended and claims 10 and 11 are revised to include the limitations of base and intervening claims and should be in condition for a notice of allowance.

The first paragraph claiming priority is rewritten to correct defects noted by the examiner.

Applicant intends to refill a continuing application with amended claims to pursue the other inventions in this application.

CONCLUSION

All of the claims remaining in this application should now be seen to be in condition for allowance. The prompt issuance of a notice to that effect is solicited.

Respectfully submitted,
ENDOCARDIAL SOLUTIONS, INC.
By its attorneys:

Date: 9/11/03

Robert C. Beck
Registration No. 28,184
Beck & Tysver, P.L.L.C.
2900 Thomas Ave., #100
Minneapolis, MN 55416
Telephone: (612) 915-9635
Fax: (612) 915-9637

Version with Markings to Show Changes

~~1.~~5. An interface system for monitoring passive electrodes and driving active electrodes on an endocardial mapping catheter, the interface system comprising:

a) a passive electrode interface adapted to monitor the passive electrodes;

b) an active electrode interface adapted to drive the active electrodes;

c) a computer interface adapted to allow computer monitoring of the passive electrodes and driving of the active ~~electrodes.~~electrodes;

d) a signal generator controlled by the computer interface, the signal generator electrically connected to the active electrode~~interface.~~

~~2. The~~ interface ~~system of claim 1, further comprising:~~
said signal generator electrically connected to the surface electrode interface;

e) a surface electrode interface adapted for electrical connection to surface ~~electrodes.3. The interface system of claim 2, wherein the signal generator is further electrically connected to the surface electrode interface.~~
electrodes;

~~4. The interface system of claim 3, further comprising~~

f) a therapy catheter interface adapted to electrically connect to electrodes on a therapy~~catheter.~~

~~5. The interface system of claim 4, wherein~~catheter, the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.

~~6.~~ The interface system of claim ~~4,~~5, wherein the ~~therapy catheter~~passive electrode interface further comprises a~~locator electrode interface, and the signal generator is electrically connected to the locator electrode interface.~~

~~7. The interface system of claim 4, further comprising:~~

~~g) an ECG subsystem in communication with the computer interface and the surface electrode interface.~~

~~8. The interface system of claim 1, further comprising~~

~~e) the therapy catheter interface adapted to electrically connect to electrodes on the therapy catheter.~~

Omitted section of claim

10. ~~9. The interface system of claim 8,~~signal conditioner having a high pass section and a low pass section, wherein the therapy catheter interface further comprises a therapy electrode interface for delivering ablation energy to the therapy catheter.

~~10. The interface system of claim 9, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section.~~

11. ~~11. The interface system of claim 6,~~The interface system of claim 5, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section.

Replacement Claims

5. An interface system for monitoring passive electrodes and driving active electrodes on an endocardial mapping catheter, the interface system comprising:
   a) a passive electrode interface adapted to monitor the passive electrodes;
   b) an active electrode interface adapted to drive the active electrodes;
   c) a computer interface adapted to allow computer monitoring of the passive electrodes and driving of the active electrodes;
   d) a signal generator controlled by the computer interface, the signal generator electrically connected to the active electrode interface said signal generator electrically connected to the surface electrode interface;
   e) a surface electrode interface adapted for electrical connection to surface electrodes;
   f) a therapy catheter interface adapted to electrically connect to electrodes on a therapy catheter, the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.

10. The interface system of claim 5, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section, wherein the therapy catheter interface further comprises a therapy electrode interface for delivering ablation energy to the therapy catheter.

11. The interface system of claim 5, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section.

1st Paragraph - Specification
Version with Markings to Show Changes

~~This is a Divisional Application of U.S. Serial No. 09/005,105, filed January 9, 1998, entitled "Electrophysiology Mapping System;" which was a Continuation-In-Part of U.S. Serial No. 08/387,832, officially filed May 26, 1995 and entitled "Endocardial Mapping System and Catheter Probe";~~ --This application is a divisional of Ser. No. 09/005,105, filed Jan. 9, 1998 which is a continuation in part of application of Ser. No. 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307 which is a national stage application ~~based upon international application~~of PCT/US93/09015, filed ~~September 23, 1993; which in turn is a Continuation-In-Part of both U.S. Serial No. 07/950,448, filed September 23, 1992 (now U.S. Patent 5,291,549) and U.S. Serial No. 07/949,690, also filed September~~Sept. 23,1992, which in turn claims ~~23, 1992 (now U.S. Patent 5,311,866). The parent application, Serial No. 08/387,832, is incorporated by reference herein.~~priority from U.S.S.N. 07/950,448, filed Sept. 23, 1992, now U.S. Pat. No. 5,297,549 and U.S.S.N. 07/949,690, filed Sept. 23, 1992, now U.S. Pat. No. 5,311,866. Applicants claim priority to: 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307; Ser. No. 08/376,067 filed Aug. 20 1995, now U.S. Pat. No. 5,553,611; and Ser. No. 08/178,128 filed Jan. 6, 1994, now abandoned.--

Replacement 1st Paragraph - Specification

--This application is a divisional of Ser. No. 09/005,105, filed Jan. 9, 1998 which is a continuation in part of application of Ser. No. 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307 which is a national stage application of PCT/US93/09015, filed Sept. 23,1992, which in turn claims priority from U.S.S.N. 07/950,448, filed Sept. 23, 1992, now U.S. Pat. No. 5,297,549 and U.S.S.N. 07/949,690, filed Sept. 23, 1992, now U.S. Pat. No. 5,311,866. Applicants claim priority to: 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307; Ser. No. 08/376,067 filed Aug. 20 1995, now U.S. Pat. No. 5,553,611; and Ser. No. 08/178,128 filed Jan. 6, 1994, now abandoned.--